Title

Phase-Controlled Electromagnetic Coherence Module (PC-ECM)

Formerly referred to as SWEM in informal drafts.

Abstract

This document describes an experimental electromagnetic field-generation module designed for exploratory research into phase-controlled signal interference, field geometry, and coherence behavior.

No medical, biological, therapeutic, or health-related claims are made.

System Overview

The module accepts a low-power electromagnetic input signal and applies controlled phase offsets across a bifilar coil assembly.

The objective is to study field interference patterns, standing-wave behavior, and coherence effects in a localized environment.

Hardware Architecture

• Bifilar coil assembly using counter-wound copper conductors.

• Toroidal or air-core geometry to study field containment and symmetry.

• Low-voltage DC power input compatible with laboratory signal generators.

Signal Flow & Phase Control

Input signals are split into two channels with a fixed phase offset (typically 90 degrees).

The phase relationship is adjustable for experimental tuning and interference analysis.

Field Geometry & Interference

The system enables investigation of constructive and destructive interference within confined geometries.

Observed effects are treated as electromagnetic phenomena without asserting non-EM propagation.

Measurement & Instrumentation

Suggested measurements include oscilloscope phase verification, pickup coil monitoring, and spectrum analysis.

All measurements are non-biological and environment-focused.

Theoretical Context

Historical references to alternative field theories are included solely for context.

No validation or endorsement of non-standard physics models is implied.

Limitations & Open Questions

The system does not claim novel force generation, non-local effects, or biological interaction.

Results are expected to vary based on construction tolerances and environmental conditions.

Explicit Disclaimer

This device is intended solely for research, educational, and exploratory engineering purposes.

No medical, diagnostic, therapeutic, or health-related use is claimed or implied.

The device is not intended to treat, cure, prevent, or mitigate any disease or condition.